

Product datasheet

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ARG82993 Porcine BDNF ELISA Kit

Package: 96 wells Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG82993-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG82993-002 | Standard | 2 X 10 ng/vial | 4°C |
| ARG82993-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG82993-004 | Antibody conjugate concentrate (100X) | 1 vial (100 μl) | 4°C |
| ARG82993-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG82993-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 μl) | 4°C |
| ARG82993-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG82993-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG82993-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG82993-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG82993-011 | Plate sealer | 4 strips | Room temperature |
| | | | |

Summary

| Product Description | ARG82993 Porcine BDNF ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human BDNF in serum, plasma (EDTA, heparin, citrate) and cell culture supernatants | | |
|---------------------|---|--|--|
| Tested Reactivity | Pig | | |
| Tested Application | ELISA | | |
| Specificity | There is no detectable cross-reactivity with recombinant human CNTF, beta-NGF, NT-3, NT-4, recombinant mouse beta-NGF, NT-4 and recombinant rat beta-NGF. | | |
| Target Name | BDNF | | |
| Conjugation | HRP | | |
| Conjugation Note | Substrate: TMB and read at 450 nm. | | |
| Sensitivity | 15.6 pg/ml | | |
| Sample Type | Serum, plasma (EDTA, heparin, citrate) and cell culture supernatants | | |
| Standard Range | 31.2 - 2000 pg/ml | | |
| Sample Volume | 100 μΙ | | |

Precision Intra-Assay CV: 4.2%

Inter-Assay CV: 7.6%

Alternate Names Brain-derived neurotrophic factor; Abrineurin; BULN2; ANON2; BDNF

Application Instructions

Assay Time

~ 5 hours

96 well

Properties

Form

Storage instruction Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test

reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual

for detail temperatures of the components.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol

Gene Full Name brain-derived neurotrophic factor

BDNF

Background The protein encoded by this gene is a member of the nerve growth factor family. It is induced by

cortical neurons, and is necessary for survival of striatal neurons in the brain. Expression of this gene is reduced in both Alzheimer's and Huntington disease patients. This gene may play a role in the regulation of stress response and in the biology of mood disorders. Multiple transcript variants encoding distinct isoforms have been described for this gene. [provided by RefSeq, Jan 2009]

Function During development, promotes the survival and differentiation of selected neuronal populations of the

peripheral and central nervous systems. Participates in axonal growth, pathfinding and in the modulation of dendritic growth and morphology. Major regulator of synaptic transmission and plasticity at adult synapses in many regions of the CNS. The versatility of BDNF is emphasized by its contribution to a range of adaptive neuronal responses including long-term potentiation (LTP), long-term depression (LTD), certain forms of short-term synaptic plasticity, as well as homeostatic regulation

of intrinsic neuronal excitability. [UniProt]

Highlight Related products:

BDNF antibodies; BDNF ELISA Kits; BDNF recombinant proteins;

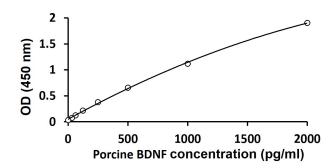
Related news:

The role of HDGF in tumor angiogenesis New ELISA data calculation tool: Simplify the ELISA analysis by GainData

PTM The propeptide is N-glycosylated and glycosulfated.

Converted into mature BDNF by plasmin (PLG). [UniProt]

Cellular Localization Secreted. Note: A proportion of BDNF is secreted as immature precursor (proBDNF). [UniProt]



ARG82993 Porcine BDNF ELISA Kit standard curve image

ARG82993 Porcine BDNF ELISA Kit results of a typical standard run with optical density reading at 450 nm.